

Claim Amendments and Listing of Claims:

Please cancel claims 11-12, 14, 24-33, amend claims 13, 15-19 and 21-33 and add new claims 34-51 as follows:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Canceled)
12. (Canceled)

13. (Currently amended) The printing data processor according to claim
[[12]] 34, wherein the page state information added into the printing data with intermediate form
has the same form as the intermediate form has four different printing modes, in increasing size
in terms of memory, including:

a monochrome binary printing mode;

a color binary printing mode;

a monochrome multiple value printing mode; and

a color multiple value printing mode.

14. (Canceled)

15. (Currently amended) The printing data processor according to claim
[[11]] 34, wherein the editing process part [[has]] includes:

a decoding process part ~~for separating~~ that separates the printing data output from
the host into commands; and

a command process part ~~for executing~~ that executes a pre-process with respect to
each command output from the decoding part.

16. (Currently amended) The printing data processor according to claim
[[11]] 34, wherein the printing data with intermediate form is printing data expressed by display
list form.

17. (Currently amended) The printing data processor according to claim
[[11]] 34, further comprising:

a reading out part ~~for reading~~ that reads out the page state information[[12]] in order
to control a printing operation depending upon the page state information.

18. (Currently amended) The printing data processor according to claim [[14]] 34, wherein, based on said page state information, a proper process part is selected from [[said]] a plurality of process parts.

19. (Currently amended) The printing data processor according to claim [[14]] 34, further comprising:

a printing speed decision part for changing printing speed, the printing speed decision part determining printing speed from a judgment result of the page state judgment part for [[one]] a current page being printed[[;]] and a judgment result of the ~~page state judgment part~~ for ~~other~~ a page following the [[one]] current page being printed, according to a predetermined decision rule.

20. (Previously presented) The printing data processor according to claim 19, wherein the printing speed of color is slower than the printing speed of monochrome.

21. (Currently amended) The printing data processor according to claim 20, wherein following a monochrome printing, if a color printing will be performed, the printing speed of the monochrome printing is set [[by]] to the printing speed of color.

22. (Currently amended) The printing data processor according to claim [[18,]] 19, wherein the ~~page state judgment part~~ judges printing speed is based on whether the printing data is color data or monochrome data.

23. (Currently amended) The printing data processor according to claim 22, wherein if monochrome data and color data are intermingling in printing data of one page, the ~~page state judgment part judges that the page is color data~~ printing speed is based on the printing speed of color.

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Canceled)

32. (Canceled)

33. (Canceled)

34. (New) A printing data processor comprising:

an editing process part that, after having received printing data with page description language (PDL) form output from a host page by page, edits the PDL data into printing data with intermediate form by page unit and analyzes all color data contained in the intermediate data of one page in order to generate page state information corresponding to the one page;

an expansion process part that performs an expansion process with respect to the intermediate data; and

an expansion-use-memory that is used by the expansion process while the expansion process is being performed, a real-use-quantity of the expansion-use-memory for the expansion process of one page being set based on the page state information.

35. (New) The printing data processor according to claim 34, wherein the page state information indicates whether the one page requires color printing or monochrome printing.

36. (New) The printing data processor according to claim 34, wherein if the all color data include data indicating color and data indicating monochrome, the page state information is set to indicate color printing; and if the all color data only include data indicating monochrome, the page state information is set to indicate monochrome printing.

37. (New) The printing data processor according to claim 34, wherein if the page state information indicates that the one page is monochrome printing, the real-use-quantity is set to a smaller size than when the page state information indicates that the one page is color printing.

38. (New) The printing data processor according to claim 34, wherein the real-use-quantity corresponding to monochrome printing generally is one quarter of that corresponding to color printing.

39. (New) The printing data processor according to claim 34, wherein the page state information is added into the corresponding intermediate data.

40. (New) A printing data processor comprising:

an editing process part that, after having received printing data with page description language (PDL) form output from a host page by page, edits the PDL data into printing data with intermediate form by page unit and analyzes all color data contained in the intermediate data of one page in order to generate page state information corresponding to the one page;

an expansion process part that performs an expansion process to expansively process the intermediate data into printable data corresponding to every page;

an intermediate data memory that stores the intermediate data;

a printable data memory that stores the printable data;

a system management part that, when the page state information indicates that the corresponding page is color printing, makes the intermediate data memory store the corresponding intermediate data and, when the page state information indicates that the corresponding page is monochrome printing, makes the expansion process part perform the expansion process and makes the printable data memory store the corresponding printable data.

41. (New) The printing data processor according to claim 40, wherein all of the expansion processes corresponding to monochrome printing pages are performed prior to executing printing and all of the expansion processes corresponding to color printing pages are performed while executing printing.

42. (New) A printing data processor comprising:

an editing process part that, after having received printing data with page description language (PDL) form output from a host page by page, edits the PDL data into printing data with intermediate form by page unit and analyzes all color data contained in the intermediate data of one page in order to generate page state information corresponding to the one page;

an expansion process part that performs an expansion process to expansively process the intermediate data into printable data corresponding to every page;

an intermediate data memory that stores the intermediate data;

a printable data memory that stores the printable data;

an expansion-use-memory that is used by the expansion process while the expansion process is performed;

a system management part that sets the real-use-quantity of the expansion-use-memory for the expansion process of one page based on the page state information; when the page state information indicates that the corresponding page is color printing, makes the intermediate data memory store the corresponding intermediate data; and when the page state information indicates that the corresponding page is monochrome printing, makes the expansion process part perform the expansion process and makes the printable data memory store the corresponding printable data.

43. (New) The printing data processor according to claim 42, wherein all of the expansion processes corresponding to monochrome printing pages are performed prior to executing printing.

44. (New) The printing data processor according to claim 42, wherein all of the expansion processes corresponding to monochrome printing pages are continuously performed prior to executing printing, and the expansion-use-memory is used once for four monochrome printing pages.

45. (New) A printing data processor comprising:

an editing process part that, after having received printing data with page description language (PDL) form output from a host page by page, edits the PDL data into printing data with intermediate form by page unit and analyzes all color data contained in the intermediate data of one page in order to generate page state information corresponding the one page;

a printing speed decision part that decides the printing speed of a current page to be printed based on the page state information of the current page being printed and the page state information of a next page that will print following the current page.

46. (New) The printing data processor according to claim 45, wherein the printing speed corresponding to color printing is slower than that corresponding to monochrome printing.

47. (New) The printing data processor according to claim 45, wherein if the page state information of the current page indicates monochrome printing and the page state information of the next page indicates color printing, the monochrome printing of the current page is performed by using color printing speed.

48. (New) The printing data processor according to claim 45, wherein the printing speed corresponding to color printing is slower than that corresponding to monochrome printing; and if the page state information of the current page indicates monochrome printing and the page state information of the next page indicates color printing, the monochrome printing of the current page is performed by using color printing speed.

49. (New) The printing data processor according to claim 45, wherein when the real-use-quantity is set to a smaller value, the remainder of the expansion-use memory is provided to next page.

50. (New) The printing data processor according to claim 45, wherein the page-memory-setting information has four different printing modes, in increasing size in terms of memory, including:

a monochrome binary printing mode;

a color binary printing mode;

a monochrome multiple value printing mode; and

a color multiple value printing mode.

51. (New) A printing data processor comprising:

an editing process part that, after having received printing data with page description language (PDL) form output from a host page by page, edits the PDL data into printing data with intermediate form by page unit and analyzes all color data contained in the intermediate data of one page in order to generate page state information corresponding to the one page; and

an expansion process part that performs an expansion process with respect to the intermediate data, when performing duplex printing, the expansion process part performs the expansion processes respectively corresponding to every page according to the order of printing of pages.